## RECEIVED CENTRAL FAX CENTER

Docket No. 03-03 US

## JUN 2 2 2007

## IN THE CLAIMS:

Please amend the claims as follows:

- 1. (currently amended) In a magnetic resonance apparatus for study of a sample, said apparatus comprising an environment surrounding said sample wherein said environment is characterized by a first value of magnetic susceptibility, An an amorphous composition used in magnetic resonance apparatus, said composition-comprising an amorphous matrix, a metal ion selected from the group consisting of Gd<sup>3+</sup>, Fe<sup>+3</sup> and Mn<sup>+2</sup>, and a ligand, said composition having a selected-value of magnetic susceptibility at cryogenic temperatures substantially equal to said first value.
- 2. (original) The composition of claim 1, wherein said ligand binds said metal ion and effects solubility thereof in said amorphous matrix.
- 3 (original) The composition of claim 2, wherein said metal ion is  $Gd^{3+}$  and is in the form of  $Gd(Lg)_3$  or, in the alternative, in the form of  $Gd(ACAc)_3$  wherein Ac is acetylacetonate, and Lg is 2,2,6,6-tetramethyl-3, 5-heptanedionate.
- 4. (original) The composition of claim 1, wherein said amorphous matrix comprises epoxy resin.
- 5-6. (canceled)
- 7. (currently amended) The composition of claim 1, wherein said composition is characterized by a selected said value of induced magnetization equal to that of another selected material at said cryogenic temperatures for exposure of both said materials by to said applied magnetic field.
- 8. (currently amended) The composition of claim 1, wherein said selected value of magnetic susceptibility is zero.
- 9. (currently amended) The composition of claim 1, wherein said selected value of magnetic susceptibility is reached at a selected temperature below substantially 77°K.

Docket No. 03-03 US

- 10. (original) The composition of claim 1, wherein said metal ion is Gd<sup>+3</sup>.
- 11. (original) A method of preparing an amorphous composition to exhibit a desired susceptibility at cryogenic temperatures, comprising the steps of:

mixing a metal ion selected from the group consisting of Gd<sup>3+</sup>, Fe<sup>+3</sup> and Mn<sup>+2</sup>, with an amorphous matrix and a ligand so that the resulting composition has a nearly zero magnetic susceptibility at said cryogenic temperatures.

- 12. (original) The method of claim 11, wherein said ligand binds said metal ion and effects solubility thereof in said composition.
- 13. (original) The method of claim 11, wherein said metal ion is Gd and is in the form selected from the group consisting of Gd(Lg)<sub>3</sub> and Gd(AcAc)<sub>3</sub> wherein Ac is acetylacetonate, and Lg is 2,2,6,6-tetramethyl-3, 5-heptanedionate.
- 14 (original) The method of claim 11, wherein said amorphous matrix is epoxy resin.
- 15. (original) The method of claim 11, wherein said composition has a magnetization equal to the magnetization of another material in the presence of the same magnetic field.
- 16.-19 (canceled)